DOCUMENT RESUME

ED 135 634 SE 022 010

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TITLE Checklist of Abbreviations and Acronyms in the Physics Literature.
PUB DATE Nov 76
NOTE 15p.; Not available in hard copy due to marginal legibility of original document

EDRS PRICE MF-$0.83 Plus Postage. HC Not Available from EDRS.
DESCRIPTORS *Abbreviations; *Physical Sciences; *Physics; Scholarly Journals; Science Education; *Subject Index Terms

ABSTRACT

This document provides a listing of 500 abbreviations and acronyms related to physics with the definition of each. Each abbreviation was used in journals received by the Purdue University Physics Library during the years 1973-1976. (SL)

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CHECKLIST OF ABBREVIATIONS AND ACRONYMS IN THE PHYSICS LITERATURE

November 1976

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INTRODUCTION

A small study was conducted 1973-1975 to analyze what types of problems a person encounters when attempting to identify acronyms and abbreviations in the physics literature. The items were gathered by glancing at the tables of contents of the journals received each day in the Physics Library, Purdue University. This library has about 500 periodical subscriptions. If an abbreviation was included in the title, the paper was examined to ascertain whether the brief form was defined. A card was made for each, noting the abbreviation, the definition if one was given, and the journal reference. Trade names and the acronyms for computer programs were omitted. A record was not kept of how many times each item was encountered.

In a random sample of 40 of these abbreviations and acronyms, about half could be found only in the papers in which they were published (1). On the other hand, 20 of the items that could be verified in nine dictionaries and encyclopedias had from five to 53 different definitions.

The present report is a checklist of the more than 500 items which were gathered 1973-1976 (2). The list is arranged in alphabetical order by abbreviation. The definitions are given for each. Although the journal reference is not included, it is available on request to the author.

References

1. Martha J. Bailey. "The Use of Abbreviations and Acronyms in the Physics Literature" American Society for Information Science. Journal.27: (no. 2), 81-4 (March April 1976)

2. A list of abbreviations in electronics was prepared by John C. McKechnie in "An Abbreviated Guide to Electronics Abbreviations." Electronics 49: (no. 9), 115-117 (April 29, 1976)

ABFST	Amati-Bertocchi-Fubini-Stanghellini-Tonin
ABMR	Atomic Beam Magnetic Resonance
ADC	Analog-to-Digital Converter
ADI	Alternating-Direction- Implicit
ADP	ammonium dihydrogen phosphate $NH_4H_2PO_4$
ADPCM	Adaptive Differential Pulse Code Modulation
AES	Auger Electron Emission Spectroscopy
AES	Auger Electron Spectroscopy
AETV	Anodic Etch-To-Voltage
AF	Antiferromagnets
AHK	Anastasio-Hockert-Kuo
AIDER	Angle-of-Incidence-Derivative Ellipsometry and Reflectometry
ALN	Absorption Line Narrowing
AMIS	Automated Mask Inspection System
AMO	Alternant Molecular Orbitals
AMSC	Amplitude Modulation with Suppressed Carrier
AOM	Angular Overlap Model
APS	Appearance Potential Spectroscopy
APW	Augmented - Plane - Wave
APW-LCAO	Augmented-Plane - Wave Linear-Combination-of-Atomic Orbitals
AROM	Analog Read-Only Memory
ASW	Acoustic Surface Wave
ATC	Adiabatic Toroidal Compressor
ATR	Attenuator Total Reflectance
BBD	Bucket-Brigade Device
BCCD	Bulk Channel Charge-Coupled Devices
BCH	Baker-Campbell-Hausdorff
BCS	Bardeen-Cooper-Schreiffer
BEBC	Big European Bubble Chamber
BEBO	Bond Energy-Bond Order
BEL:Nd	$La_2Be_2O_5:Nd^{3+}$
BFRP	Boron Fiber Reinforced Plastics
B-G	Bleustein-Gulyaev
BG	Bryan-Gerkelenz
BGH	Bovine Growth Hormone
BGK	Bernstein-Green Kruskal
BGYB	Born-Green-Yvon-Bogolyubov
BHF	Brueckner-Hartree-Fock
BJT	Bipolar Junction Transistor
BP	Boron monophosphide
BPTI	Bovine Pancreatic Inhibitor
BS	Boron monosulphide
CADMIC	Computer Aided Design of Microwave Integrated Circuits
CaLaSOAP:Nd	$Ca_2La_{7.85}Nd_{0.15}(SiO_4)_6O_2$
CAR	Canonical Anticommutation Relations
CARS	Coherent Anti-Stokes Raman Specstroscopy
CB	Cyclobutanone
CBS	Complex Band Structure
CCBA	Coupled Channel Born Approximation
CCD	Charge Coupled Device
CCDs	Charge-Coupled Device
CCF	Carbonaceous Chondrite Fission .
CCR	Canonical Commutation Relations
CD	Convolution Difference
CDS	Cationically Disordered Structure
CDW	Charge-Density-Wave
CEEC	cholesteryl 2-(2-ethozyethoxy) ethyl carbonate
CEF	Crystalline Electric Field

CEM	Conventional Electron Microscope
CEPA	Coupled Electron Pair Approximation
CEPA-PNO	Coupled Electron Pair Approximation with Pair Natural Orbitals
CESR	Conduction Electrón Spin Resonance
CFAPD	Controlled Field Avalanch Photodiode
CFF	Critical Flicker Frequency
CFSO-BEBO	Crystal Field Surface Orbital-Bond Energy Bond Order
CGTO	Contracted Gaussian Type Orbitals
CHL	Current Hogging Logic
CI	Configuration Interaction
CID	Charge-Injection Device
CIDE(N)P	Chemically Induced Dynamic Electron and Nuclear Polarization
CIDEP	Chemically Induced Dynamic Electron Polarization
CIDNP	Chemically Induced Dynamic Nuclear Polarization
CIDNP	Chemically Induced Nuclear Polarization
CM	Cluster model
CM	Configuration Mixing
CMA	Cylindrical Mirror Analyser
CMDWBA	Cluster Model DWBA
CMN	Cerium Magnesium Nitrate
C-MOS	Complementary MOS
CMCSCF	Complete MCSCF
CNDO	Complete Neglect of Differential Overlap
CO	Crystal Orbital
COAT	Coherent Optical Adaptive Techniques
COSMOS	Complementary-Symmetry Metal Oxide Semiconductor
CPA	Coherent Potential Approximation
CR	Cyclotron Resonance
CRT	Cathode Ray Tube
CsDA	CsH_2AsO_4
CSF	Configuration State Functions
CT	Charge Transfer
CTAT	Computerized Transverse Axial Tomography
CTD	Charge Transfer Device
CTS	copper tetra-amine sulfate $Cu(NH_3)_4SO_4H_2O$)
CVC	Conserved Vector Current
CVD	Chemical Vapor Deposition
DAC	Digital-Analog Converter
DAG	Dysprosium-Aluminum Garnet
DAM	Distorted Atoms in Molecules
DAMA	Dual Amplitude with Mandelstam Analyticity
DAPS	Data Acquisition and Processing System
DCI	1,1' -diethyl-4,4' - carbocyanine iodide
DD/CMOS	Deep-Depletion CMOS
DDM	Detailed Drifted Maxwellian
DESERT	Deuterium Substitution Effect on Relaxation Time
DESY	Deutsches Elektronen-Synchrotron DESY, Hamburg, Ger.
DF laser	Deuterium Fluoride laser
DFB laser	Distributed-Feedback laser
DFI	Dark Field Imaging
DH laser	Double-Heterostructure laser
DH laser	Double-Heterojunction laser
dHvA	de Haas-van Alphen
DKDP	KD_2PO_4
DLDV	Differential Heterodyne Laser Doppler Velocimeter
DLRO	Diagonal Long-Range Order

DME	Dropping Mercury Electrode
DMF	N, N-dimethylformamide
DMSO	dimethyl sulfoxide
DNR	Differential Negative Resistance
DODCI	3,3' -diethyloxadicarbocyanine iodide
DODS	Different Orbitals for Different Spins
DOS	Density of States
DPCM	Differential Pulse Code Modulation
DPPH	diphenyl picryl hydrazyl
DPR	Depolarized Rayleigh Line
DSA	Doppler Shift Attenuation
DSAM	Doppler Shift of gamma-rays
DSC	Differential Scanning Calorimetry
DT	Direct Tunneling
DTA	Differential Thermal Analysis
DTGS	deuterated triglycine sulfate
DVMO	Direct-Valance Molecular Orbital
DWBA	Distorted-Wave Born Approximation
EA	Electron Affinity
EAROM	Electrically Alterable Read Only Memory
EAS	Extensive Air Shower
EB	Electron Beam
EBBA	N-(p-ethoxybensylidene)-p-butylaniline
EBES	Electron Beam Exposure System
EBFZ	Electron Beam Floating Zone
EBIC	Electron Beam Induced Current
EBS	Electron Bombarded Semiconductor
ECL	Emitter-Coupled Logic
ECR	Electron Cyclotron Resonance
ECRH plasma	Electron Cyclotron Resonance Heated plasma
ECVC	Effective Conservation of the Vector Current
ED	Electromigrational Depletion
E/D	Enhancement/Depletion
EET	Erlanger Erpobungs-Trager
EFG	Edge-defined Film-fed Growth
EFG	Electric Field Gradient
EFL	Evans-Fleming-Lawler
EGM	Epitaxial Growth by Melting
EHD	Electron-Hole Droplets
EHF	Extended Hartree-Fock
EHM	Erkelenz-Holinde-Machleidt
EHT	Extended Hückel Theory
EID	Electron Induced Desorption
EL	Electroluminescent
ELDOR	Electron-electron Double Resonance
ENDOR	Electron Nuclear Double Resonance
EOE	Electro-Optical Elements
EPD	Euler-Poisson-Darboux
EPI	External Particle Identifier
EPID	Electrophoretic Image Display
EPMA	Electron Probe Micro Analyzer
EPR	Electron Paramagnetic Resonance
EQI	Electric Quadrupole Interaction
ES	Electron Synchrotron
ESCA	Electron Spectroscopy for Chemical Analysis
ESE	Electron Spin Echo
ESFI	Epitaxial Silicon Films on Insulators
ESLR	Effective Surface Leakage Resistance
ESP	Energy Solar Particles

ESR	Electron Spin Resonance
EUV	Extreme Ultra Violet
EXAFS	Extended X-ray Absorption Fine Structure
EXD	Exchange Degeneracy
FBR	Flow Birefringence
FBX	ferrous sulphate-benzoic acid-xylenol
FC	Franck-Condon
FDSM	Feynman Diagram Summation Method
FEED	Field Emission Energy Distribution
FEM	Field Emission Microscopy
FESR	Finite-Energy Sum Rules
FET	Field-Effect Transistor
FFT	Fast Fourier Transform
FI-MS	Field Ionization Mass Spectrometry
FIM	Field Ion Microscope
FIR	Far Infrared
FIR	Far-Infrared Reflectivity
FIR	Finite-Impulse-Response
FIZ	Ferrara-Iliopoulos-Zumino
FMR	Ferromagnetic Resonance
FOCI	First-Order Configuration Interaction
FPSQ	Four-Parameter Semi-Quantum
FPT	Finite Perturbation Theory
FS	Frey-Salmon
FS	Fermi Surface
FS	Frequency-Splitting
FSGO	Floating Spherical Gaussian Orbital
GAMBIT	Gate Modulated BIpolar Transistor
GARP	Global Atmospheric Research Programme
GASH	Gyanidium aluminum sulfate hexahydrate $[C(NH_2)_3][Al(H_2O)_6][SO_4]_2$
GCF	Greatest Common Factor
GDR	Giant Dipole Resonance
GGG	Gadolinium gallium garnet $Gd_3Ga_5O_{12}$
GHS	Griffiths-Hurst-Sherman
GKS	Griffiths-Kelly-Sherman
GLT	Generalized Lorentz Transformation
GMO	gadolinium molybdate $Gd_2(MoO_4)_3$
GOE	Generalized Overhauser Effect
GOLCAO	Group Orbitals as Linear Combinations of Atomic Orbitals
GP	Guinier-Preston
GPG	Gas Plasma Gun
graser	gamma-ray laser
GRR-1	Greek Research Reactor-1 (Nuclear Research Center "Democritos", Athens)
GTF	Gaussian Type Functions
GTG	Gersten-Thompson-Green
HB	Hydrogen Bonds
HBC	Hydrogen Bubble Chamber
HCN laser	Hydrogen Cyanide Laser CH_4-N_2
HCP	Hexagonal-Close-Packed
HEA	Holinde-Erkelenz-Alzetta
HF	Hartree-Fock
HF SCF	Hartree-Fock SCF
HFB	Hartree-Fock-Bogoljubov
HFS	Hyperfine Structure
HHW	Haag-Hugenholtz-Winnink
HIC	Hybrid Integrated Circuit
HM	Hydromagnetic

HMX	1,3,5,7-tetranitro-1,3,5,7-tetraazacyclooctane
HNC	Hypernetted Chain
HPD	Hough Powell Device
HPOR	Heat-Pipe-Oven Reactor
HSAB	Hardness and Softness of Acids and Bases
HT	High Temperature
HTGR	High-Temperature Gas-cooled Reactors
HV	Hidden-Variable
HVEM	High Voltage Electron Microscopy
I-center	Interstitial Ion Center
IAS	Isobaric Analog States
ICC	Internal Conversion Coefficients
ICDR	Ion Cyclotron Double Resonance
ICFET	Inhomogeneous Channel Field-Effect Transistor
ICR	Ion Cyclotron Resonance
IDT	Interdigital Transducer
IECRM	Intrinsic-Excitation-Coupled-to-Rotator Model
IEE	X-ray Induced Photoelectron Spectroscopy
IF	Intermediate Frequency
IGE	Inverse Gap Equations
I^2L	Integrated Injection Logic
IMGE	Inverse Modified Gap Equations
IMPACT	Ion Implantation Perturbed Angular Correlation Techniques
INDO	Intermediate Neglect of Differential Overlap
INS	Ion Neutralization Spectroscopy
INS	University of Tokyo, Institute for Nuclear Study
IOA	Independent Ordering Approximation
IOC	Inclusion of Overlap Charges
IP	Ionization Potentials
IPDC	Integral Perturbed Directional Correlation
IRFTS	Infrared FTS
IRRS	Infrared Reflectance Spectra
ISR	Intersecting Storage Rings
ISS	Ion Scattering Spectrometer
ISS	Ion Backscattering Spectroscopy
ITC	Ionic Thermocurrents
JDOS	Joint Density Of States
JFET	Junction Field Effect Transistor
JFETT	Junction Field-Effect Transistor Tetrode
JINR	Joint Institute for Nuclear Research, Moscow, USSR
JIPP	Japan Institute of Plasma Physics
JT	Jahn-Teller
KCP	$K_2Pt(CN)_4Br_{0.3} \cdot 3.2H_2O$
KDP	Potassium dihydrogen phosphate KH_2PO_4
KKR	Kramers-Kronig Relations
KLL	KL_1L_1
KMS	Kubo-Martin-Schwinger
KMT	Kerman-McManus-Thaler
KTN	$KTa_xNb_{1-x}O_3$
LAMP	Logic Analyzer for Maintenance Planning
LAMPF	Los Alamos Meson Physics Facility
LARAM	Line Addressable Random-Access Memory
LASER	Light Amplification by Stimulated Emission of Radiation

LASL	Los Alamos Scientific Laboratory, University of California, Los Alamos, NM
LAT	Lithium ammonium tartrate monohydrate $LiNH_4C_4H_4O_6 \cdot H_2O$
LBL	Lawrence Berkeley Lab., University of California
LCAO	Linear Combination of Atomic Orbitals
LED	Light Emitting Diodes
LEED	Low Energy Electron Diffraction
LET	Low Energy Theorem
LHR	Lower Hybrid Resonance
LID	Leadless Inverted Devices
Linacs	Linear Accelerators
LMFBR	Liquid Metal Fast Breeder Reactors
LMN	$La_2Mg_3(NO_3)_{12}.24D_2O$
LMS	Least Mean Square
LNP	Lithium neodymium tetraphosphate $LiNdP_4O_{12}$
LO	Longitudinal Optical
LPE	Liquid Phase Epitaxy
LPS	Longitudinal Phase Space
LRA-fission	Long-Range Alpha Fission
LRU	Least Recently Used
LSD	Laser-Supported Detonation
LSI	Large-Scale Integration
LSS	Lindhard-Scharff-Schiott
LSV	Linear Sweep Voltammetry
LT	Lorentz Transformation
LTE	Local Thermodynamic Equilibrium
LVDT	Linear Variable Differential Transformer
LWR	Light-Water Reactor
LZS	Landau-Zener-Stueckelberg
Maglev	Magnetic Levitation
MARC	Multiaxis Radial Circuit
MASER	Microwave Amplification by Stimulated Emission of Radiation
MASS	Multiparticle Argo Spectrometer System
MBBA	N-(p-methoxybenzylidene)-p-butylaniline
MBE	Molecular Beam Epitaxy
MBRS	Molecular Beam Relaxation Spectrometry
MC	Multi-Configuration
MC SCF	Multiconfiguration Self-Consistent Field
MCD	Magnetic Circular Dichroism
MCG	Magnetocardiogram
MCHF	Multi-Configuration Hartree-Fock
MCP	Microchannel Plate
MCSCF	Multiconfiguration Self-Consistent Field
MCSCF CI	Multiconfiguration Self-Consistent Field plus Configuration Interaction
MDL	Minimum Detectable Limits
MEG	Magnetoencephalogram
MESFET	Metal-Semiconductor Field-Effect Transistor
MFA	Mean Field Approximation
MGOS	Metal-PSG-Oxide-Silicon
MHD	Magnetohydrodynamics
MIC	Microwave Integrated Circuit
MIM	Metal-Insulator-Metal
M-I-M-I-M	Metal-Insulator-Metal-Insulator-Metal

MIO	Magnetic Impurity Oscillation
MISIM	Metal-Insulator-Semiconductor-Insulator-Metal
MMSE	Minimum Mean-Squared Error
MNOS	Metal-Nitride-Oxide-Semiconductor
MO	Molecular Orbital
MOA	Maximum Overlap Approximation
MODR	Microwave-Optical Double Resonance
MOLD	Metal-Overlap Laterally Diffused
MOPS	Microwave-Optical-Photoselection Spectroscopy
MOS	Metal Oxide Semiconductor
MOS-C	Metal-Oxide-Semiconductor Capacitor
MOS RAM	MOS Random-Access Memory
MRM	Manganin Resistance Manometer
MSI	Medium Scale Integrated
MSM	Metal-Semiconducor-Metal
MT	Muffin-Tin
MTF	Modulation Transfer Functions
MUBFF	Modified Urey-Bradley Force Field
MWLA	Monochromatic Waves of a Large Amplitude
MWPC	Multiwire Proportional Chamber
NDA	Negative Dielectric Anisotropy
NDAO	$C_9H_{14}NO_2$
NDC	Negative Differential Conductivity
NDDO	Neglect of Diatomic Differential Overlap
NEA	Negative Electron Affinity
NEF	Noise Exposure Forecast
NENDEP	N-channel Enhancement Depletion
NETD	Noise Equivalent Temperature Difference
NMMS	Neutron Mirror Monochromatizing Systems
NMOS	N-channel MOS
NMP-TCNQ	N-methylphenazinium-tetracyanoquinodimethane
NMR	Nuclear Magnetic Resonance
NN	Nucleon-Nucleon
NO	Natural Orbitals
NOVCAM	Nonvolatile Charge-Addressed Memory
NQR	Nuclear Quadrupole Resonance Relaxation
NR	Negative Resistance
NSO	Natural Spin Orbitals
NUT	Newman-Unti-Tamburino
OBEP	One-Boson-Exchange Potential
ODLRO	Off-Diagonal Long-Range Order
ODM	Overall Drifted Maxwellian
OFHC	Oxygen-Free High-Conductivity
1D	One Dimensional
OPC	Orientational Pair Correlations
OPCTS	Octaphenylcyclotetrasiloxane
OPE	One-Pion Exchange
OPEP	One Pion Exchange Potential
OPER	One-Pion-Exchange Reggeized Model
OPW	Orthogonalized-Plane-Wave
ORIC	Oak Ridge Isochronous Cyclotron
OSEE	Optisch Stimulierte Exoelektronenemission
OTF	Optical Transfer Function

OVFF	Orbital Valancy Force Field
OXTN	3-oxetanone
PAA	Para-azoxy-anizol $CH_3O-C_6H_4-N_2O-C_6H_4-OCH_3$
PAN	polyacrylonitrile
PC	Photoconductive
PCAC	Partial Conservation of Axial Vector Current
PCILO	Perturbative Configuration Interaction using Localized Orbitals
PCM	Pulse Code Modulation
PD Spectrum	Paramagnetic Difference Spectrum
PDA	Positive Dielectric Anisotropy
PDC	phenylenediamine
PDL	Plasmadynamic Laser
PEBAB	p- [(p-ethoxybenzylidene)]amino benzonitrile
PEM Effect	Photoelectromagnetic Effect
PEMCSCF	Paired Excitation MCSCF
PER	Paraelectric Resonance
PES	Photoelectron Spectroscopy
PET	Polyethylene-terephthalate
PF	Pedersen-Freed
PFCB	perfluorocyclobutanone
PFES	Plane Faced Energy Surface
PHP	Projected Hartree Product
PIG	Penning Ionization Gauge
PIPECO	Photoion-Photoelectron Coincidence
PLZT	lead zirconate-titanate PbLaZrTi
PMDA	pyromellitic acid dianhydride
PMDR	Phosphorescence Microwave Double Resonance
PMN	lead magnesium niobate $Pb_3MgNb_2O_9$
PMR	Proton Magnetic Resonance
PNO	Pair Natural Orbital
PNO-CEPA	Pair Natural Orbital - Coupled Electron Pair Approximation
PNO-CI	Pair Natural Orbital-Configuration Interaction
PNQR	Pure Nuclear Quadrupole Resonance
POPOP	(2,2',p-phenylenebis [5 phenylozaxole])
PPE	Photoplastic Effect
PPM	Pulse Position Modulation
PPP	Pariser-Parr-Pople
PPP CO	Pariser-Parr-Pople Crystal Orbital
PPP DODS CO	Pariser-Parr-Pople Different Orbitals for Different Spins Crystal Orbital
PPP DO MO	Pariser-Parr-Pople Different Orbitals for Different Spins Molecular Orbital
PROM	Pockels Readout Optical Modulator
PSD	Position-Sensitive Detector
PSF	Point Spread Function
PSG	Phosphosilicate Glass
PSMD	Photoselective Metal Deposition
PTDL	Programmable Tapped Delay Lines
PTF	Phase Transfer Function
PTFE	polytetrafluoroethylene
PTR	Plasma Turbulent Reactors
PVK-TNF	poly-n-vinylcarbazole-trinitroflourenone
PWM	Pulse Width Modulator
PY	Percus-Yevick

PZT	$Pb(Zr,Ti)O_3$
QAM	Quadrature Amplitude Modulation
QDDQ	Quadrupole-Dipole-Dipole-Quadrupole
QED	Quantum Electrodynamics
QM	Quantum Mechanics
Qn	quinoline
QPSK	Quadriphase Shift Keying
QRPA	Quasiparticle RPA
RAAT	Regenerative Amplifier Above Threshold
RAM	Random Access Memory
RAPW	Relativistic APW
RDA	Rubidium dihydrogen arsenate
RDA	Reflective Dot Array
RDF	Radial Distribution Function
RDP	rubidium dihydrogen phosphate
RECF	Receive Filters
REF	Rare Earth F (Centers)
ReIG	Rare Earth Iron Garnets
RFSE	Radio Frequency Size Effect
RGTAV	Resonant Gate Transistor with an Active Vibrator
RHA	Regularized Helicity Amplitudes
RHEED	Reflection High Energy Electron Diffraction
RHF	Restricted Hartree-Fock
RKKY	Ruderman-Kittel-Kasuya-Yosida
RKR	Rydberg-Klein-Rees
RMS	Root-Mean-Square
RNA	ribonucleic acid
ROM	Read-Only Memory
RPA	Random Phase Approximations
RPAE	Random Phase Approximation with Exchange
RPM	Radical Pair Mechanism
RRKM	Rice-Ramsperger-Kassel-Marcus
RSCF	Relativistic Self-Consistent-Field
RSRS	Resonance Spectra of Spontaneous Raman Scattering
RT	Room Temperature
RWA	Rotating Wave Approximation
SAG	Self-Aligned-Gate
SAMO	Simulated Ab-initio Molecular Orbital
SAW	Surface Acoustic Waves
SBN	$Sr_{1-x}Ba_xNb_2O_6$
SBS copolymers	Styrene-butadiene-styrene copolymers
SCC	Superposition of Correlated Configurations
SCCD	Surface Channel Charge-Coupled Devices
SCF	Self-Consistent Field
SCF CI	Self-Consistent Field Configuration Interaction
SCF MO	Self-Consistent Field - Molecular Orbital
SCH	Schierholz
SCLC	Space-Charge-Limited Current
SCM	Semiclassical Method
SCNT	Sub-Coulomb Neutron Transfer
SCSOPW	Self-Consistent Symmetrized Orthogonalized-Plane-Wave

SD	Slater Determinants
SE	Secondary Electrons
SEE	Secondary Electrons Excitation
SEM	Scanning Electron Microscope
SEM EBIC	Scanning Electron Microscope Electron Beam Induced Current
SFA	Sudden Field Anomaly
SFI	Surface Field Induced
SH	Single-Heterostructure
SH-DH	Shubnikov-de Haas
SHE	Super-Heavy Element
SHG	Second-Harmonic Generation
SHO	Simple Harmonic-Oscillator
SIM	same as SIMS
SIMS	Secondary Ion Mass Spectroscopy
SIN Cyclotron	Swiss Institute for Nuclear Research Cyclotron
SISAK	Short-lived Isotopes Studied by the AKufve Technique
SISAM	Spectrometer Interferentiel a Silection par l'Amplitude de Modulation
SLAC	Stanford Linear Accelerator Center
sLe	Stochastic Liouville Equation
SLT	Superluminal Lorentz Transformation
SLUG	Superconducting Low Inductance Undulating Galvanometer
SLZ	Stueckelberg-Landau-Zener
SMESR	Strain-Modulated Electron Spin Resonance
SMP	Scanning and Measuring Projectors
SNR	Signal-to Noise Ratio
SNS	Superconductor / Normal-Conductor/Superconductor
SOE	Single Open Ended
SOR	Synchrotron Orbit Radiation
SOS	Silicon on Sapphire
SOSL	Silicon on Spinel
SP	Spin Polarization
SPED	Single-Photon-Exchange Diagram
SPF	Simons-Parr-Finlan
SPIGS	Sputter PIG Source
SPM	Semiphenomenological Model
SPOCAL	Solion Polarized Cathode Acoustic Linear
SPT	Selective Population Transfer
SQUID	Superconducting Quantum Interference Device
SRG	Self-Registered Gate
SRS	Stimulated Raman Scattering
SSB	Single Sideband
SSP	Solid State Plasma
SSPG	SAW-Stabilized Pulse Generators
ST	Spin Tickling
STAC	Sampling Total Absorption Counter
STEM	Scanning Transmission Electron Microscope
STF	Slater-Type Basis Functions
STO	Slater-Type Orbitals
SXAPS	Soft X-ray Appearance Potential Spectroscopy
TA Phonon	Transverse Acoustic Phonon
TBBA	terephthal-bis-butylaniline
TCNQ	tetracyanoquinodimethane
TCR	Temperature Coefficient of Resistance

TDPBCS	Tamm-Dancoff PBCS
TE	Thermal Excitation
TEA	Thermal Electron Attachment
TEA	triethylammonium
TEDADO	triethylenediamine-dioxide
TEM	Transmission Electron Microscope
TEO	Transferred-Electron Oscillator
TF	Thomas-Fermi
TFD	Thomas-Fermi-Dirac
TFT	Thin Film Transistors
TGFB	triglycine fluoroberyllate
TGS	Triglycine sulphate
TGSe	Triglycine selenate
THM	Traveling Heat Method
TIL	Transparent Insulating Layers
TIR	Total Internal Reflection
TKR	Thomas-Kuhn-Reiche
TL	Thermoluminescence
TL	Thermostimulated Luminescence
TLD	Thermoluminescence Dosimeters
TLM	Transmission Line Matrix
TM	Triplet Mechanism
TMCC	tetramethyl ammonium cadmium trichloride
TMMC	tetramethyl ammonium manganese trichloride $(CH_3)_4NMnCl_3$
TMMP	Transition-Metal Model Potential
TMNB	tetramethylammonium tribromonickelate $(CH_3)_4NNiBr_3$
TMNC	tetramethylammonium trichloronickelate $(CH_3)_4NNiCl_3$
TO	Transverse Optical
TOA	Time Of Arrival
TPA	Two Photon Absorption
TPS	Thyristor Power Supply
TRF	Transmit Filters
TRIUMF Cyclotron	Tri-University Meson Facility (Vancouver B.C.) Cyclotron
TSB	Trans-Stilbene
TSC	Thermostimulated Current
TSCAP	Thermally Stimulated Capacitance
TSCC	trissarcosine calcium chloride
TSD	Thermally Stiumlated Depolarization
TSEE	Thermally Stimulated Exo-electron Emission
TSEM	Transmission Secondary Electron Multipliers
TSH	Tricalcium silicate hydrate
TTF	tetrathiofulvalene
TTF-TCNQ	tetrathiofulvalinium-tetracyanoquinodimethonide
TTL	Transistor-Transistor Logic
TTS	Temporary Threshold Shift
TTT-TCNQ	tetrathiotetracene-tetracyanoquinodimethane
TUNL	Triangle Universities Nuclear Laboratory
TVGP	Three View Geometry Program
UHF	Unrestricted Hartree-Fock
UIR	Unitary Irreducible Representations
UJT	Unijunction Transistor
UNIS	Universal Negative Ion Source
UP-US	Uranium phosphide - Uranium sulfide
UPS	Ultraviolet Photoelectron Spectroscopy
VCNR	Voltage-Controlled Differential Negative Resistance
VFET	V-shaped Notched-Channel Field-Effect Transistor

VHV	Very High Vacuum
VIP	Vertical Ionization Potential
VISAR	Velocity Interferometer System for Any Reflector
VLB	Very Long Baseline
VLS	Vapor-Liquid-Solid
VMD	Vector Meson Dominance
VMI	Variable Moment of Inertia
VPE	Vapor Phase Epitaxy
VPE	Virtual Phonon Exchange
VPV	Variable Photomultiplier Voltage
VSB	Vestigial Sideband
VSM	Vibrating-Sample Magnetometer
VTL PEPR	Visual Techniques Laboratory (U. Washington) Precision Encoding Pattern Recognition
VUV	Vacuum Ultraviolet
V-V	Vibrational-to-Vibrational
VVR	Voltage Variable Resistor
WFIV	White Light Fringe Image Velocimeter
WKB	Wentzel-Kramers-Brillouin
W-T	Ward-Takahashi
XPS	X-ray Photoemission Spectroscopy
YAG	Yttrium Aluminum Garnet
YALG	Yttrium Aluminum Garnet
YIG	Yttrium Iron Garnet
YIGG	Rare Earth Iron Garnet
ZFE	Zero Forcing Equaliser
ZFS	Zero Field Splittings
ZGE	Zero Guidance Electronics
ZPPR	Zero Power Plutonium Reactor